



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,947	02/04/2004	Hoe-Won Kim	678-1166 (P10757)	3784
28249	7590	11/17/2005	EXAMINER	
DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553			LAM, DUNG LE	
			ART UNIT	PAPER NUMBER
			2687	

DATE MAILED: 11/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/771,947

Applicant(s)

KIM, HOE-WON

Examiner

Dung Lam

Art Unit

2687

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)–(d), which papers have been placed of record in the file.

Specification

2. The disclosure is objected to because of the following informalities:
3. The word “DAMP” in paragraphs 32, 33, 35 seems to be a typographical error, it should be corrected to “DMAP”.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by **Chen et al** (US Pub. No. 2003/0005382).
6. Regarding **claim 1**, Chen teaches a method for broadcasting data in a mobile communication system including a core network and a plurality of mobile stations (MSs) (102-104, Fig. 1 and wireless communication devices, WCD, para. 18), comprising the steps of: broadcasting, by the core network, transmission data over one shared downlink channel to the MSs within one base transceiver station (BTS) service area (para. 18 and 19);

Art Unit: 2687

and generating, by the MSs, receiving report data indicating whether the data has successfully been received (para. 20-22), and transmitting the receiving report data to the core network at uniquely assigned uplink channel positions (para. 23).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim **2-4** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Chen et al** (US Pub. No. 2003/0005382) in view of **Choi** (US Pub. No. 2003/0023915).

8. Regarding **claim 2**, **Chen** teaches a method of claim 1. However, **Chen** does not specifically teach that the core network splits the data of a main data block. However, it is known in the art that large amount of data are split into smaller packets to send through the network. In an analogous art, **Choi** teaches the splitting of the data in to smaller blocks (para. 19). Therefore, it would have been obvious for one of ordinary skill in the art to combine Chen's teaching of broadcasting method and Choi's teaching of breaking the data into smaller chunk as a known technique of packetizing in data transmission for the advantage of faster retransmission of information and reducing frame error rate.

Art Unit: 2687

9. Regarding **claim 3**, **Chen and Choi** teach a method of claim 2. **Choi** further teaches the main data block is comprised of a header block, a retransmission data block and a transmission data block (para.18).

10. Regarding **claim 4**, **Chen and Choi** teach a method of claim 3. **Choi** further teaches that each of the MSs analyzes the header block of the received data, to determine whether to receive the retransmission data block (examining the header information to determine what to do with the datablock, para. 18-20)

11. Claim **5** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Chen et al** (US Pub. No. 2003/0005382) in view of **Torsener** (US Publication No. 2005/0039101).

12. Regarding **claim 5**, **Chen** teaches a method of claim 1. However, he fails to teach that the MSs waits for a transmission request from the core network in order to uplink the receiving report data indicating whether the transmission data has successfully been received. In analogous art, **Torsener** teaches that Node B may request the UE to report a status (para.80). Therefore, it would have been obvious for one of ordinary skill in the art at the time of the invention to modify **Chen's** teaching of broadcasting data to have **Torsener's** teaching of requesting the UE to send a report status since this modification would prevent Node B from being overwhelmed/overloaded with numerous reports unnecessary under some circumstances.

Art Unit: 2687

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Lam whose telephone number is (571) 272-6497. The examiner can normally be reached on M - F 9 - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DL


ELISEO RAMOS-FELICIANO
PATENT EXAMINER